

Abstract

The invention proposes a piezoelectric actuator, for example for actuating a mechanical component, that has a multilayered structure of piezoelectric layers (2) with inner electrodes (3, 4) disposed between them. The inner electrodes (3, 4) contact the outer electrodes (5, 6) on alternating sides and the piezoelectric actuator (1) has chamfered corners or edges (10). In the region of the corners or edges (10), on the sides of the piezoelectric actuator (1) on which the inner electrodes (3, 4) with alternating polarities are routed to the respective outer electrodes (5, 6), the inner electrodes (3) have a contour that makes it possible to achieve a lower field intensity between the inner electrodes (3, 4) of alternating polarities in the structure of piezoelectric layers (2). This is achieved by virtue of the fact that on the side that does not contact the outer electrodes (5, 6), the edge (10) has an obtuse angle (a) or is rounded.

(Fig. 4)